

Plans for releasing Swartz evidence

MIT plans to make documents public, but with names redacted

By Joanna Kao
CONTRIBUTING EDITOR

Aaron Swartz's lawyers filed a motion on Friday requesting that evidence used in Swartz's trial be made publicly accessible, including many MIT documents. The motion requested in particular that the court not redact the names and official titles of all law enforcement personnel and employees of MIT and JSTOR who appear in the evidence.

INSIDE THE ISSUE

See President L. Rafael Reif's letter to the MIT community on page 9.

In a letter to the community this morning (<http://tech.mit.edu/V133/N13/reifletter.html>, see page 9), President L. Rafael Reif said

that MIT will release requested documents to the public, but with some redactions. It's not clear that MIT's opinion will be final — the decision still rests with Judge Nathaniel M. Gorton of the Massachusetts District Court, who was assigned to Swartz's case.

Reif said that some of the documents contain information about vulnerabilities in MIT's network and that he has the responsibility to "protect the privacy and safety of those members of our community who have become involved in this matter in the course of doing their jobs for MIT, and to ensure a safe environment for all of us who call MIT home."

"Therefore — in the spirit of openness, balanced with responsibility — we will release the requested MIT documents, re-

Swartz, Page 9



Mark Antony (Zachary D. Tribbitt '13, left) leads a Roman citizen (Salvador Espanza '14, right) out of a crowd to see Julius Caesar's (Christopher D. Smith '13) body up close in the MIT Shakespeare Ensemble's performance of "Julius Caesar." The MIT Shakespeare Ensemble, composed of MIT students and community members who work together long-term to produce Shakespeare shows, are performing the play until March 23.

MELISSA RENÉE SCHUMACHER—THE TECH

UA VP candidate withdraws

Ticket removed & voting reset; other races unaffected

By Anne Cai
EDITOR IN CHIEF

This year's Undergraduate Association Presidential/Vice Presidential election took a surprise turn late Sunday night, when UA VP candidate Johnathan Kongoletos '14 emailed out to several dorm lists announcing his withdrawal from the UA VP candidacy at 11:21 p.m., under 10 hours before online voting opened at 9 a.m. yesterday morning. At that time and throughout the day, both of the tickets — Sidhanth P. Rao '14/Devin T. Cornish '14 and Cory D. Hernandez '14/Johnathan Kongoletos '14, for UA P/VP — still appeared on the ballot at vote.mit.edu.

"For those who know me well, they know that I am a person who always puts his best foot for-

ward," wrote Kongoletos. "The undergraduate population deserves the best effort from all elected officials. I believe that I will be unable to devote the time that the MIT community deserves of the UA VP." He continued to assure voters that Hernandez was still running for UA president, and if he were to be elected, Kongoletos would "aid in the search" for a suitable vice president.

However, as of 9:30 p.m. last night, the Hernandez/Kongoletos ticket was removed from the ballot. The elections were reset for the UA P/VP race, and "no votes from the first P/VP race will be counted, so everyone must vote in this new race, regardless of previous voting," according to an email sent to all undergraduates by UA Election Commission Chair Laura D. Royden '13.

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The MIT Symphony Orchestra performed and recorded Igor Stravinsky's "Rite of Spring" on Friday night, March 15, in Kresge auditorium.

NOT IN OUR NAME

You cannot always conflate the state of Israel and Judaism.

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Have you ever slept through class? What do you think you know when you wake up?

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TENURED BUT TROUBLED

Professors experience depression too.

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Choose to Reuse this Thursday from 11 a.m. to 1 p.m. in Stata!

Wednesday is the first day of spring! Eideh shoma mobarak!

Send news information and tips to news@tech.mit.edu.

Hillary Clinton endorses same-sex marriage

Saying that "gay rights are human rights," Hillary Rodham Clinton, the former secretary of state and potential 2016 presidential candidate, has endorsed same-sex marriage.

"I believe America is at its best when we champion the freedom and dignity of every human being," Clinton said in a video posted Monday on the Internet by the Human Rights Campaign, a gay rights advocacy group. Her announcement comes as the Supreme Court is about to hear two landmark gay rights cases that advocates hope will make same-sex marriage legal in all 50 states.

Clinton's announcement represents a switch in position; as a presidential candidate in 2008, she explicitly opposed same-sex marriage, saying that she favored civil unions but that decisions about the legality of marriage should be left to the states. (Until last year, President Barack Obama took that position as well; the president now favors a right to marriage for gay couples.)

But Clinton did take steps to protect gay couples when she was secretary of state, work that she said "inspired me to think anew" about the values she holds.

"LGBT Americans are our colleagues, our teachers, our soldiers, our friends, our loved ones, and they are full and equal citizens and deserve the rights of citizenship," she said in the six-minute video, using the abbreviation for lesbian, gay, bisexual and transgender. "That includes marriage."

Clinton spoke in the video of the recent wedding of her own daughter, Chelsea, saying, "I wish every parent that same joy."

Clinton and her family have longstanding ties to the Human Rights Campaign. The group's president, Chad Griffin, was born in Hope, Ark. — Bill Clinton's hometown — and got his start in politics volunteering for Bill Clinton's 1992 presidential campaign. The former president and Chelsea Clinton expressed their support for same-sex marriage when it was under consideration in the New York state legislature.

And just last week, Bill Clinton expressed his explicit support for overturning the federal Defense of Marriage Act, the 1996 law — which he signed — that requires the federal government to view marriage as between a man and a woman for legal purposes.

—Sheryl Gay Stolberg, *The New York Times*

China arrests man after wife's self-immolation protest

HONG KONG — The Chinese police arrested the husband of a Tibetan woman who last week died after setting herself alight in protest, an overseas group said Monday, following a separate fatal self-immolation at a Tibetan Buddhist monastery over the weekend.

The two acts bring the number of self-immolations by Tibetans within China to 109 since February 2009, based on a count compiled by the Tibetan government in exile, based in Dharamsala in northern India.

The woman, Kunchoek Wangmo, set herself ablaze Wednesday in Aba prefecture, a heavily Tibetan area of Sichuan province in southwest China, and her husband, Dolma Kyab, was detained by the police after he refused to blame domestic problems for her protest, said Free Tibet, a group based in London that campaigns for Tibetan self-determination. Aba is called Ngaba by Tibetans.

Alistair Currie, a media officer for Free Tibet, said that the group was not sure precisely when the man was arrested and that it had not received any more word about his case.

The predominantly Tibetan parts of Sichuan province have been among the restive areas that have experienced self-immolation protests against the Chinese presence and policies.

On Saturday, Lobsang Thogmey, a monk at the Kirti Buddhist Monastery — also in Aba prefecture — set himself on fire outside the monastery and died, according to the Tibetan government in exile.

—Chris Buckley, *The New York Times*

11th-hour Cyprus bailout incites turmoil in Europe

By James Kanter,
Nicholas Kulish,
and Andrew Higgins
THE NEW YORK TIMES

BRUSSELS — The plan to rescue the tiny European country of Cyprus, assembled in overnight talks in Brussels, was itself the product of European dysfunction and has left financial regulators, German politicians, panicked Cypriot leaders and a disgruntled Kremlin thrashing out a bailout package that left virtually all the parties outraged.

In the end, a bailout deal that was supposed to calm a financial crisis in an economically insignificant nation spread it wider, unnerving markets across Europe, raising fears of bank instability in Spain and Italy and sending pensioners into the streets of the island's capital in protest.

As markets tumbled and the Cypriot Parliament fell into turmoil, salvos of blame hurled back and forth across the Continent as officials scrambled to explain what went wrong and how best to

control the damage of what Philip Whyte at the Center for European Reform called a "completely irrational decision" to put bank depositors on the hook for part of the bailout.

The deal flopped so badly that finance ministers who came up with it early Saturday were on the phone Monday night talking about ways to revise it. Whatever the outcome, the dispute provides a vivid demonstration of why Europe, which until recently was congratulating itself on having weathered the worst of the financial storm, has such trouble making decisions with so many different interests represented at the table.

Politics get in the way of economics and make it difficult for wealthy countries to line up behind a plan to help the smallest ones. The Northern European nations have grown so weary of bailouts for their southern neighbors that they were intent on exacting a hefty contribution from their latest supplicant. Germany in particular, with parliamentary elections looming in September, was set on

driving a hard bargain.

A wild card in this instance were the Russians, who have deposited billions in Cypriot banks, extended a \$3.25 billion line of credit to Cyprus in 2011 and were in negotiations to help Cyprus again. Cypriot leaders apparently were so concerned with keeping their wealthy Russian customers happy that they pushed their own citizens to pay more than some of the lenders were demanding.

The Russians reacted angrily to a so-called stability tax on deposits in Cyprus and at being left out of the negotiations. On Sunday, one Russian official was reported by the Interfax news agency as advising Russians to withdraw funds from Cyprus, saying the banking system is untrustworthy.

The all-night discussions began Friday and ran for 10 hours, ending shortly before dawn. Cyprus needed to come up with billions to help cover the costs of the bailout of the country's financial sector or its European allies said they would leave it to face the prospect of collapse alone.

In Vatican, infallibility is no guarantee of clout

By Rachel Donadio
and Jim Yardley
THE NEW YORK TIMES

VATICAN CITY — An Italian industrialist tried to curry favor by donating \$100,000 worth of truffles. A Mercedes-Benz executive hoped for an audience to suggest improvements to the Popemobile. But in the final years of the papacy of Benedict XVI, others sent very different messages, desperate for the pope's ear.

A cardinal warned that the pope's top administrator was undermining his papacy. And two church benefactors worried that the Vatican's governing hierarchy — known as the Roman Curia — was riddled with intrigue.

"Where is the strength in the Curia to resist the temptations of power?" they asked in January 2011, in one of hundreds of letters to Benedict that were published last year in a book that touched off the "Vatileaks"

scandal of leaked documents.

This is the Vatican inherited by Pope Francis. In his first week on the job he has shown an uncommon humility, signaling a new direction for the church. Yet, changing the style of the papacy is far easier than changing the Vatican — an ancient monarchy in which the pope is treated like a king, branches of the hierarchy are run like medieval fiefs and supplicants vie for access and influence.

For decades popes have tried, and often failed, to change the Vatican. How Francis fares could define his papacy — and determine whether the church can better serve its more than 1 billion faithful.

"There have been a number of popes in succession with different personalities, but the structure remains the same," said a former superior general of a Roman Catholic religious order, who spent more than a decade in Rome. "Instead of you transforming the structure, the struc-

ture transforms you."

As the head of the Catholic Church, Francis is more than its spiritual leader. He is also the top box of one of the most opaque government flow charts in the world, running the last truly global empire from the world's smallest sovereign state, which sits on 108 acres in the heart of Rome behind high walls.

While the power of the pope is absolute, the vast bureaucracy of the Vatican is powerful, too. The waning days of Benedict's troubled papacy were marked by complaints from ordinary Catholics as well as from powerful cardinals that the Curia had become too concerned with accumulating power and unresponsive to the needs of its followers.

For Francis to change that, he must contend with power centers within the Vatican that revolve around money, real estate and the distribution of resources to foreign policy, ideology and church doctrine.

WEATHER

Winter storm precedes arrival of spring

By Vince Agard
STAFF METEOROLOGIST

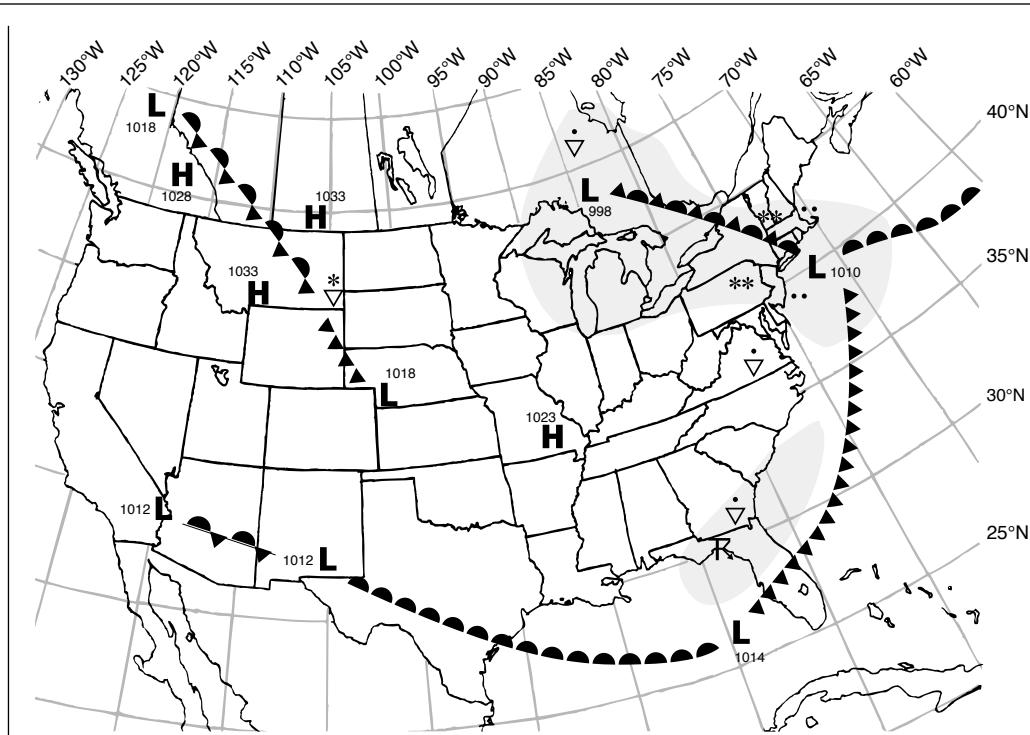
A coastal storm will bring a wintry mix of precipitation to New England today on the last full day of winter. The precipitation will begin as snow in the early morning hours, and continue through sunrise. Snowfall will be moderate to heavy at times, leading to an accumulation of 3 to 6 inches through mid-morning. At that point, the precipitation will change briefly to sleet (falling ice pellets), before changing over to a cold rain for the remainder of the day. While the changeover to rain will likely

lessen the hazard associated with this winter storm, the early snowfall could put a damper on the morning commute. At the time of this writing, the National Weather Service had issued a Winter Storm Warning for the Boston/Cambridge area, which was to be in effect until 11:00 a.m. today.

Rain is expected to end overnight. After the storm, the vernal equinox will occur at 7:02 a.m. tomorrow morning. This exact moment — at which the tilt of the Earth will be such that the equator directly faces the sun — will mark the end of winter and the official beginning of spring.

Extended Forecast

Today: Morning snow changing to sleet and then to rain, high 37°F. Winds E at 15–20 mph.
Tonight: Rain ending late, low 26°F. Winds W at 10–15 mph.
Tomorrow: Mostly sunny and breezy, high 38°F. Winds W at 15–20 mph.
Thursday: A slight chance of rain or snow showers, highs around 40°F.
Friday: Partly cloudy, highs around 40°F.



Situation for Noon Eastern Time, Tuesday, March 19, 2013

Weather Systems		Weather Fronts		Precipitation Symbols		Other Symbols	
H	High Pressure	- - -	Trough	Snow	Rain	Fog	
L	Low Pressure	— — —	Warm Front	>Showers	▽ ▽	Thunderstorm	
8	Hurricane	▲ ▲ ▲	Cold Front	Light	* *	Haze	
		▲ ▲ ▲	Stationary Front	Moderate	** ..		
		▲ ▲ ▲		Heavy	*** ..		

Compiled by MIT Meteorology Staff and *The Tech*

Republicans reflect on 2012 performance in blunt report

By Sarah Wheaton
THE NEW YORK TIMES

WASHINGTON — In a sweeping self-critique of the party's 2012 election efforts, Republican leaders on Monday unveiled a set of proposals aimed at convincing younger voters, ethnic minorities and women that they have a home in the party, even if they do not agree with all of its positions.

"The report minces no words in telling us that we have to be more inclusive," Reince Priebus, chairman of the Republican National Committee, said Monday. "I agree. And as President Reagan said, our 80 percent friend is not our 20 percent enemy."

The national party's report, called the Growth and Opportunity Proj-

ect, is the latest contribution to a conversation among conservatives after disappointing losses in the 2012 presidential and Senate elections. Just days earlier, at the Conservative Political Action Conference, activists debated whether the Republican Party should moderate on issues like immigration or stand firm.

"There's no one reason we lost" in 2012, Priebus said. "Our message was weak. Our ground game was insufficient. We weren't inclusive. We're — we were behind in both data and digital. And our primary and debate process needed improvement."

The prescription from the national party largely avoids policy, instead focusing on messaging.

"The way we communicate our principles isn't resonating widely

enough," Priebus said. "Focus groups described our party as narrow-minded, out of touch and, quote, stuffy old men."

Priebus announced that the national committee would invest \$10 million to bring on new staff members to help appeal to young, female and minority voters. They will be charged with delivering an "aggressive marketing campaign" among those voters about "what it means to be a Republican."

Drafted by national committee members and party strategists, including Ari Fleischer, a White House press secretary for President George W. Bush, the report incorporated feedback from focus groups, online surveys and interviews with activists and consultants.

Use of generics produces a drop in drug spending

By Katie Thomas
THE NEW YORK TIMES

Spending on prescription drugs nationwide has been slowing for years because of the increasingly widespread use of low-cost generics. But in 2012, something unheard-of happened: Money spent on prescription drugs actually dropped.

The dip was small — 1 percent, to \$325.7 billion — but it was the first time the research firm IMS Health recorded a decrease in U.S. drug sales since the company began tracking such numbers in 1957. And

earlier this month, the pharmacy benefit manager Express Scripts reported that spending on commonly used pills — like those that treat high blood pressure and cholesterol — dropped by 1.5 percent, the first time that had happened since Express Scripts began following drug trends 20 years ago.

But even as the U.S. is in the midst of what has been called a "golden" period in spending on drugs, some are warning that the ever-expanding use of generics has masked a growing problem for the government, insurers and others who pay the bill

for prescription drugs: the rising cost of complex specialty medicines that treat cancer, rheumatoid arthritis and other diseases.

"This is a charmed era that won't last forever," said Paul B. Ginsburg, the president of the Center for Studying Health System Change, a nonpartisan research group that studies health care trends. "When you talk to benefits managers at large employers or insurers, the trend of specialty pharma is very, very prominent. You might even say they regard it as their biggest problem."

Former Romanian leader to be released from prison

Adrian Nastase, the former Romanian prime minister, will be released early from prison after serving nine months of a two-year term for corruption, a Bucharest court ruled Monday.

The decision to release him appeared to mark the end of an extraordinary episode that riveted Nastase's compatriots. In June, when police arrived at Nastase's villa to arrest him, the former prime minister apparently pulled out a revolver and tried to kill himself. Millions of Romanians watched on television in shock as he was carried off on a stretcher, a Burberry scarf wrapped around his neck. He survived and was soon behind bars.

Nastase, 62, the most senior Romanian politician to be jailed since the end of communism in 1989, was convicted of siphoning \$2 million in state funds for his presidential campaign. His arrest was lauded by anti-corruption advocates as a seminal moment in Romania's law enforcement history. But Nastase called the charges against him a preposterous "political game."

On Monday, even Nastase's critics said his release was understandable given his age and exemplary behavior, including writing three books while in prison.

"The fact that such a high-level politician served jail time for illegal financing is a lesson that no one in this country is above the law," said Laura Stefan, an anti-corruption expert at Expert Forum, a research group. "The point has been made."

Nastase, who was prime minister from 2000 to 2004, was expected to be released late Monday.

Romania, among the poorest countries in the European Union, has struggled to shed a culture of lawlessness and corruption, one legacy of decades of communism under the brutal dictatorship of Nicolae Ceausescu.

—Dan Bilefsky, *The New York Times*

Hurdles before Dell buys Dell

More than a month has passed since Dell announced its planned \$24.4 billion sale to its founder, Michael S. Dell. Since then, a number of shareholders have loudly complained that the price Michael Dell has offered for the computer company is far too low.

With the stock trading well above the \$13.65 a share that Michael Dell has offered — \$14.31 at Friday's close — the billionaire may very well have to raise his offer.

But that's going to cost real money.

Here's one way of looking at it: Raising the bid by a dollar a share would cost about \$1.8 billion, so getting to the \$15-a-share bid that some analysts see as necessary would add about \$2.3 billion to the deal's price.

It's unclear who might bear the cost of providing the additional capital. Michael Dell is rolling over the roughly 16 percent of shares that he controls, as well as providing around \$750 million. His partner, Silver Lake, is paying about \$1.4 billion.

—Michael J. De La Merced, *The New York Times*

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LETTERS TO THE EDITOR

Learning from Apartheid

In a column published in *The Tech* last Friday, Rachel Bandler suggests that calls for boycott, divestment, and sanctions (BDS) of Israel are tantamount to a Nazi boycott of Jewish businesses in 1933. I respond by drawing on my personal history as a child of two white South Africans, a graduate of an American Jewish Day School, and as a Master's in City Planning student here at MIT.

As a South African, I was raised to learn of the history of Apartheid. The premise of this method of state organization was simple, yet effective. A minority white government forcibly dispossessed majority black populations of land, and put them in small, underdeveloped homeland states or "bantustans." These homelands retained a nominal level of independence, but, in reality, were dependent on the white-ruled South African state for basic administrative competencies, such as tax collection. Similarly, the land controlled by the State of Israel includes a majority population of Palestinians who are forced to live in nominal territorial "administrations" ruled by Fatah and Hamas. Who decides to segregate public transport and basic services, collects taxes, and retains military control? Israel.

There were many aspects of struggle against the unjust system of Apartheid, both within South Africa and around the world. By explicit association, the current BDS movement concerning Israel is inspired by the BDS movement against

South Africa. When people around the world saw the violence and racism that underpinned this system of minority-ruled "separate development," they recognized the moral imperative to advocate for a boycott of all South African economic and cultural institutions, which upheld the administration of Apartheid. There are many states around the world that commit heinous crimes. A BDS campaign against Israel, of course, does not exempt these other countries. But it does recognize the distinct nature of minority-rule ethno-nationalism that characterizes the Apartheid state of Israel.

As a graduate of a Jewish day school in the United States, I am familiar with the knee-jerk accusations of anti-Semitism and total disregard for the existence of a non-Jewish majority population in the territory under Israeli administration, which pervades many American Jewish institutions. Bandler conflates an anti-Israel position with anti-Semitism. Her invocation of the Holocaust seems pitched primarily at silencing dissent. This is particularly chilling given that many Holocaust survivors and their descendants have actually denounced association with Israel for precisely the reasons that I enumerate here.

During my education in Jewish institutions, I have studied the Bible, Talmud, and other texts of Jewish law and philosophy for many years. Self-evidently, the modern state of Israel, which does not even provide the electoral franchise irrespective of race, ethnicity, religion or gender, to all who live within its administrative boundaries, violates the funda-

mental Jewish ethics of social justice and tikkun olam (repairing the world). On this point, I am unequivocal. This undemocratic state does not represent me as a Jew. I join with many other Jews around the world who have chosen to say to those who would conflate the state of Israel and Judaism, "not in our name."

As a Master's in City Planning student in MIT's Department of Urban Studies & Planning, I have learned of the ways in which spatial distribution of land, shelter, and public services is a basic means of wielding power. The persistence of the state of Israel in consolidating its occupation of the West Bank through construction of new settlements underlines the extent to which Israel is a perpetrator of a planning-related injustice. Any planner who has a basic understanding of the history of the profession appreciates that Israel is an example of the worst excesses of planning. Similarly, any planner with a basic understanding of the ethical imperatives of the profession would only involve themselves in such a state in order to end the administration of Apartheid in Israel and work towards emancipation of the Palestinian people.

There are many organizations that have a long history of working to end Israeli Apartheid and advance the cause of Palestinian emancipation. I do not aim to speak for them, though my sympathies and solidarity are with them. Count mine amongst the Jewish voices, the South African voices, and the planning voices, that say to tribalists like Bandler that they stand firmly on the wrong side of history.

Benjamin H. Bradlow



CORRECTIONS

A café review in Friday's issue listed the incorrect hours for Tatte Cambridge. It is open Monday-Friday 7 a.m.-8 p.m., Saturday 8 a.m.-8 p.m., and Sunday 9 a.m.-6 p.m.

OPINION POLICY

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Sudoku

Solution, page 10

A partially filled 9x9 Sudoku grid. The visible numbers are:

6		7	3	4				9
	3				7			
	4			6	5			
	1				8	3		5
	2			3		8		
9		3	1			6		
			5	1		4		
			7				6	
2				8	3	9		7

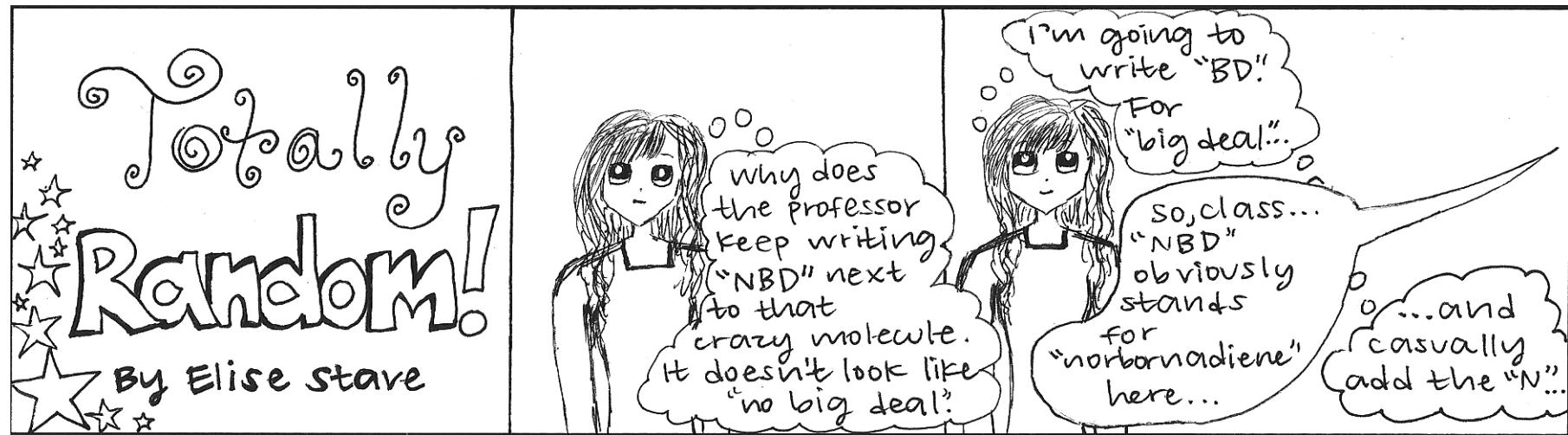
Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

Techdoku

Solution, page 10

18x		120x		
40x		30x		7+
	1		216x	
	2÷	8+		6
18x			10x	4x
	15x			4

Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–6. Follow the mathematical operations for each box.



Saturday Stumper

Solution, page 10

ACROSS

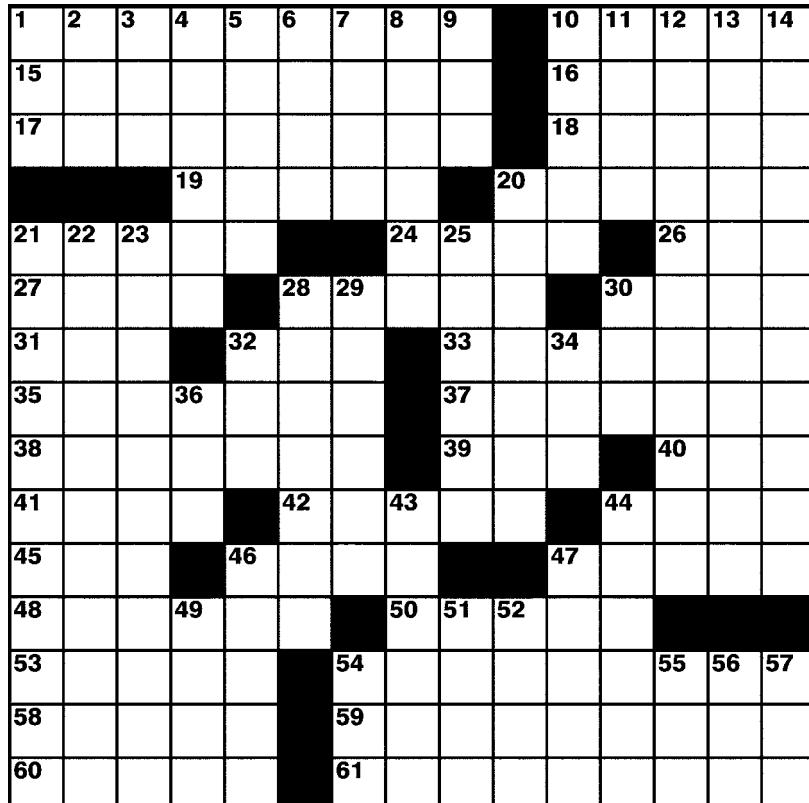
1 Touristy gift-shop staple
10 Audible licks
15 Water around Corregidor
16 Thackeray's birthplace
17 First arrival
18 Depend on gravity, in a way
19 Footnote abbr.
20 Florida Keys sport fish
21 Encore's sister station
24 Capitol Reef National Park locale
26 Put down in writing?
27 Brandy vessels
28 County-fair call
30 Radar and more: Abbr.
31 Naut. heading
32 Drama genre with many fans
33 Literary role for Hepburn, Allyson
and Ryder
35 Regular holders
37 French chef in Wodehouse stories
38 Parlor piece
39 Romantic lead
40 Contest
41 Comic dubbed "Will Rogers with
fangs"
42 Justice and Judgement are part
of it
44 Profusion
45 Don't just look
46 Horn, for one
47 Goes a round

48 Comes out with

48 Comes out with
50 Some check writing
53 Jack
54 House parties
58 Bears aloft
59 Offensive lines
60 Framed
61 Lays up

DOWN

1 " 'S a __ request": Burns
2 Pinch
3 2001 honorary doctorate recipient
from Liverpool University
4 They complete circuits
5 Sparkle
6 Trails
7 Horton Foote award for 2008
8 Spirit of Renaissance theater
9 Hook's partner
10 Women's British Open sponsor
11 Muscle __
12 Hurdle for some tablets
13 2012 debate subject
14 They may be fit for a king
20 Muzzle attachment
21 Godzilla, in part
22 Pink appetizer
23 Expert with numbers
25 Accordion-heavy music
28 Parlor pieces
29 Response to 59 Across



- 30 Bird watcher
- 32 A Forrest Gump setting
- 34 See 57 Down
- 36 NHL West team
- 43 Marine hitchhiker
- 44 Sesame Street guitarist
- 46 Nightmarish blind date
- 47 Third-century sackers
- 49 Ishmael's nephew

- 51 Its safety videos have Arabic subtitles
- 52 Sauna product
- 54 Mtge. consideration
- 55 Strident sound
- 56 Greeting in Rio
- 57 "Women hold up half the __"
(quote from 34 Down)

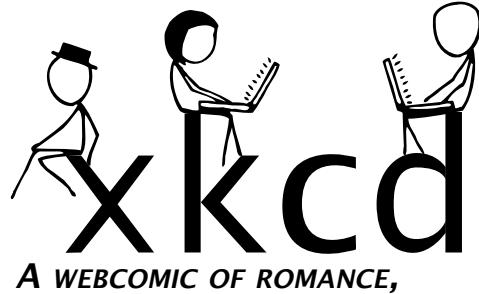
[1186] Bumblebees

SCIENCE FACT:



PHYSICISTS STILL CAN'T EXPLAIN HOW BUMBLEBEES CAN FLY AIRPLANES.

Did you know sociologists can't explain people keeping that urban legend about bumblebees not being able to fly?



A WEBCOMIC OF ROMANCE, SARCASM, MATH, AND LANGUAGE

by Randall Munroe

IN GOOD COMPANY

With tenure but not without troubles

Professor Belcher's experiences handling depression

By John W. Belcher

As chair of the Undergraduate Association Student Support Committee and as part of continuing efforts to have open discussions about mental health on campus, I approached Professor Belcher about sharing his story in a public forum. He graciously obliged with this moving account. For me, Professor Belcher's piece is a reminder that mental health challenges do not discriminate — they can strike any person at any stage of life, but they need not be debilitating.

We are always looking for additions to the conversation about mental health at MIT, especially from faculty, who are particularly inspiring to students. Perspectives from all other members of the MIT community are also valuable. If you would be willing to share your story, please be in touch at rileyb@mit.edu or ua-wellness-chairs@mit.edu. Note that for at least this semester there are also opportunities to publish through one of our partner organizations, ActiveMinds (see web.mit.edu/activeminds/speakyourmind.html).

— Betsy Riley '14
UA Student Support Committee, Chair

The April 10, 2012 issue of *The Tech* carried an article by Grace Taylor '12 that I greatly admired: <http://tech.mit.edu/V132/N17/depression.html>.

There is a stigma attached to having been clinically depressed and being on anti-depressants (as I am).

It was about her depression and how she dealt with it. Her article inspired me to write an article on the same topic from a faculty point of view. Why? Because there is a stigma

attached to having been clinically depressed and being on anti-depressants (as I am). That stigma is undeserved, and many people who should embrace such treatment instead avoid it. The more open people like Grace and I are about our experiences in dealing with depression, the more acceptance of those treatments there will be.

Near the end of the 80s, I was doing well. I had a stable marriage and two wonderful children, 8 and 11. I was a tenured Physics Professor, and Principal Investigator on an instrument on the Voyager Outer Planets mission to explore Jupiter, Saturn, Uranus, and Neptune, with a Neptune encounter coming up. Then I was diagnosed with a malignant melanoma. Its thickness was such that the chances it would metastasize were about 1 in 4. At that time, metastasized melanoma was a death sentence. I became hyper-vigilant about my health. A bit later, my then-wife and I started a major renovation project on our home, which did not go well. Because of the stress of that situation, and my own preoccupation with my health, our marriage collapsed. At the beginning of the summer of 1989, I was trying to figure out how to get divorced, what the custody arrangement for my children would be, how to prepare for the upcoming Neptune encounter in August, and because of the melanoma, still panicked about my mortality.

It was the perfect storm. My physical coordination went. My thought processes became disordered. I had a hard time, for example, simply reciting the Pledge of Allegiance. I became lethargic, and had a hard time getting out of bed in the morning. Sleeping all the time seemed like a good option. I retained a certain detachment as I was sinking into depression. "So this is what it feels like to become clinically depressed" I would say to myself. You cannot imagine what it is like unless you have been there. I have always had hyper-active thought processes—juggling a million things at once in my head. For the first time in my life I could no longer do that. I soon realized what "living in the day" meant. The best I could do

each morning was make a sort of ranked list of the things I had to do to get out of the situation I was in, and then just forget everything except the one on the top of the list. Considering the full list for even a second was just overwhelming.

It was the perfect storm. My physical coordination went. My thought processes became disordered.

I started seeing a psychiatrist, who immediately diagnosed depression and recommended an anti-depressant. I was reluctant. I was raised in Texas and had a macho attitude. Real Texans don't take Prozac. But I sank further into depression and became less and less functional, and I realized that I had no choice. I had to do something. The well-being of my children depended in part on my being a reasonably functioning adult, and I was far from that state. So I started taking Prozac.

I know that there is a lot of popular press these days about anti-depressants not always being effective. Maybe that is true for some people, but nothing could be further than the truth for me. I could immediately see the difference in my mental processes two days after I started taking Prozac. I would describe it as like being in a room full of a huge amount of static background noise, that makes it impossible to think, and then someone walks into the room and turns the volume way down. I could think logically again. I could recite the Pledge of Allegiance. My physical coordination returned. Life became tolerable. Not great, but tolerable. That made it possible to slowly start dealing with the situation I was in.

These events took place more than 20 years ago. I am now happily remarried. My children are now 34 and 37. I am permanently on Prozac, as a prophylactic. Since I am a Texan and by definition should be able to whip depression all by myself, I have on two different occasions in the last 20 years gone off of Prozac. In both cases after

about six months I lapsed back into clinical depression. I think once having been depressed, your body chemistry is such that you are more susceptible to a recurrence. Watching my descent into depression again those two times was really enlightening. I

would do fine with a certain level of stress, but if one additional, not so big, stressor was added, I went from flying high above the waves to being right at sea level, and then even the slightest additional thing could cause me to go down. And it could be really fast, like stepping off a cliff. My body chemistry could change in a few days from more or less normal to clinical depression, with all the symptoms I mentioned above. So I just stay on Prozac. Luckily for me, it has always remained as efficacious as the first time I used it.

This term I am teaching in and co-administering 8.02, a class with 830 students, along with Peter A. Dourmashkin '76. We both know from long experience that it is statistically inevitable that a handful of our 8.02 students will get into trouble this term, with their own perfect storm, and that clinical depression is one of the possible outcomes. I am no doctor, but I do recognize the symptoms of depression. If a student comes to me with troubles of any kind, I always tell them to go to S³ or Mental Health. In case depression is the cause of the trouble, I also share with them that I have been clinically depressed and am on Prozac, and that there is no shame in that.

We should all be thankful that we live in this day and age, when these medications and treatments are available. We should not avoid them. In the words of Grace Taylor, "It's not you, it's a disease."

John W. Belcher is a Macvicar Faculty Fellow and a professor in the Physics Department.

THE SECRET LIFE OF RESEARCHERS

Whale watching in New Zealand

Diving deep into the world of Kaikoura sperm whales

By Julie van der Hoop

It's 12:30 a.m. My PhD advisor is at my bunk-side. "Julie," he says, "we got one of the tags, and we can hear the other. You're up."

I wish I could say that I had just been woken up for what was a scheduled watch shift, which is typical of many research cruises. Unfortunately, the business of whale tagging does not fit a schedule, but instead involves, as my last three weeks of work off New Zealand's east coast can attest, many unpredictable sleepless nights.

On the east coast of New Zealand's South Island sits the Kaikoura peninsula, an undersea trench that juts into the continental shelf. The Kaikoura canyon's high-nutrient, upwelling waters support a rich and diverse marine community featuring a resident population of the world's largest predator: the sperm whale.

With support from the local whale watching community, and in collaboration with researchers from the University of Ota-

go who have studied the Kaikoura sperm whales since 1990, it was our goal to study how these animals use their habitat. On top of that, we hoped to test some new methods to measure acute and chronic stress in a wild population. One of the tools in our arsenal, and the one that had just woken me from an hour's nap, is the DTAG — a digital acoustic recording tag developed at Woods Hole Oceanographic Institution — which records an animal's movement in three dimensions and the depth to which it is diving. The tag also records sound through a hydrophone, capturing both the sounds produced by the tagged animal and other sounds that it can hear.

We had tagged two large male sperm whales that day. Deployed with a hand-held pole and attached via suction cup, the tags were programmed to release from the animals around 6 hours after they hit the water. The tags can be tracked by VHF (very high frequency) beacon, emitting beeps whenever they break the water's surface. When the tag releases from the animal and floats

to the surface, we can navigate towards it and recover it — which is important, as these archival tags must be retrieved for their logged data to be downloaded.

The business of whale tagging does not fit a schedule, but instead involves many unpredictable sleepless nights.

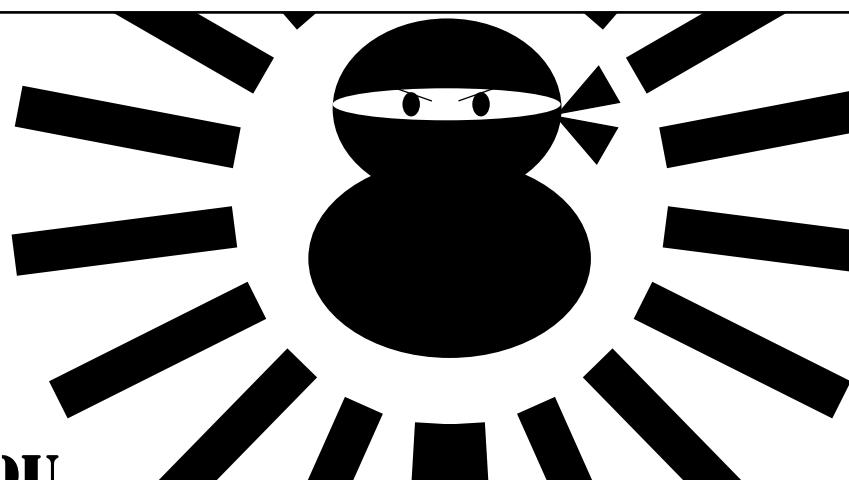
After recovery, my long night began. First, we check the suction cups for any sign of sloughed skin that could be analyzed for DNA, diet composition, or paternity. Next, it's bath time, to remove all remnants of corrosive salt water. The next step, and to me one of the most frightening, is to communicate with the tag to determine if it

recorded anything. Phew — we have data. Then it's time to settle down for many hours of data offloading, during which it's always a good idea to periodically check on things. And at 2 a.m., with everyone asleep, there is little competition for bandwidth so it makes for a good time to check email.

Many hours later, the tags are finished offloading. After serial backups, it's time to convert raw data to meaningful squiggly lines and .wav files. Success! Not only did we have two successful deployments and downloads, but also had a new record for the trip: one of the whales had dived to 1440m!

At 5 a.m., the next day is about to begin. Others will be up just before sunrise in search of new candidates to tag. As I hear folks heading to the galley for breakfast and coffee, I program the tags for their next outing, and grab a couple hours of sleep before mine.

Want to see your name on top of an article about awesome research? Contact emoberg@mit.edu and cl@the-tech.mit.edu.



Government, MIT consider publicizing documents

MIT to release Swartz documents, with names redacted; on transparency & privacy

Swartz, from Page 1

acting employee names and identifying information as appropriate to protect their privacy, as well as information about network vulnerabilities," Reif's letter said.

It is possible that the court will change the terms of the protective order for the documents.

Reif also said that the requested MIT documents will be released at the same time as Hal Abelson's report. After Swartz's death, Abelson was tasked to analyze MIT's involvement in the case. No timeline has been given for the report, and it is possible that the court will change the terms of the protective order to make documents public before the Abelson report is ready.

During the memorial service for Swartz at the MIT Media Lab last Tuesday, Swartz's partner, Taren

Stinebrickner-Kauffman, said that MIT's investigation would not be in "good faith" if it opposed the lifting of the order.

JSTOR's response was similar to MIT's. "We believe the information we provided to the United States Attorney's Office in this case should be made open and available to the public. In a letter dated Feb. 25, we agreed to the lifting of the protective order so long as the articles downloaded from JSTOR were not released and the identities of our staff are protected," said Heidi McGregor, a JSTOR spokeswoman, in an email to *The Tech*. "We do not agree that individuals' names need to be included with these materials to serve the public interest."

The court placed a blanket protective order over the evidence in November 2011, preventing the evidence from becoming public.

Various media outlets and Congress have requested these materials for their own investigations into Swartz's prosecution. The U.S. House of Representatives Commit-

tee on Oversight and Government Reform began an investigation in January after Swartz's death and requested access to these documents on Feb. 4.

In talks before the motion, both sides agreed on some terms of lifting the protective order.

In discussions prior to the motion, the government and Swartz's lawyers reached agreement on some terms of lifting the protective order, such as redacting social security numbers and birthdates, but not on the extent of redactions. The government sought to redact all names and identifying information of law enforcement, MIT and JSTOR personnel since "revealing the names of any of these individuals, even to Congress, might lead to some form of retaliation." Swartz's lawyers said that "the public interest in access to these materials

in an intelligible form outweighs the limited privacy interest in the names and official titles of the individuals named therein."

Swartz's lawyers also point out that "most of the titles that the Government seeks to redact are already publicly known" and that both MIT and JSTOR produced documents for the case when there was no protective order, meaning that they could have been publicized before the protective order was placed on November 2011.

Also on Friday, Jack W. Pirozzolo, First Assistant U.S. Attorney for Massachusetts, became involved in the Swartz case. According to an article in the *Boston Globe*, Pirozzolo took a role because he has been involved in the discussions on the modifications of the protective order.

"As you can see from the motion itself, the United States and Mr. Swartz's attorneys have been discussing over the past few weeks a way to ensure that Congress and the public receive access to appropriate information subject to

the protective order, while at the same time taking into account the interests of individuals who may be affected by modification of the order," he said to the *Globe*.

Congress has requested the documents for its own investigation.

"Although the United States and representatives of Mr. Swartz agreed on many proposed modifications to the order, the United States and Mr. Swartz's representatives did not reach agreement on the scope of the redactions," Pirozzolo said.

"The United States expects to respond to the motion within the time provided by the district court rules," he said. "It will also request that individuals potentially affected by the modification of the order be given an opportunity to be heard on the proposed modifications."

Reif's letter to the MIT community

March 19, 2013

To the members of the MIT Community:

I am writing to explain an important step that MIT has decided to take relating to the Aaron Swartz situation. Since this action affects members of our community, directly or indirectly, I want you to hear about it from me.

On Friday, the lawyers for Aaron Swartz's estate filed a legal request with the Boston federal court where the Swartz case would have gone to trial. They demanded that the court release

to the public information related to the case, including many MIT documents. Some of these documents contain information about vulnerabilities in MIT's network. Some contain the names of individual MIT employees involved. In fact, the lawyers' request argues that those names cannot be excluded ("redacted") from the documents and urges that they be released in the public domain and delivered to Congress.

At MIT, we believe in openness, and we are not afraid to reexamine our own actions; indeed, it was with those values in

mind that I asked Professor Hal Abelson to undertake his analysis following Aaron Swartz's tragic suicide. But I believe that openness must be balanced with reasonable concern for privacy and safety. That is especially true in this situation. In the time since Aaron Swartz's suicide, we have seen a pattern of harassment and personal threats. In this volatile atmosphere, I have the responsibility to protect the privacy and safety of those members of our community who have become involved in this matter in the course of doing their jobs for MIT, and to

ensure a safe environment for all of us who call MIT home.

Therefore — in the spirit of openness, balanced with responsibility — we will release the requested MIT documents, redacting employee names and identifying information as appropriate to protect their privacy, as well as redacting information about network vulnerabilities. We will release these documents at the same time that we release Professor Abelson's report. In this way, our own community and those outside can examine both these primary documents

and Professor Abelson's analysis, which he is now forming through a careful process that includes a review of this written material as well as extensive in-person interviews.

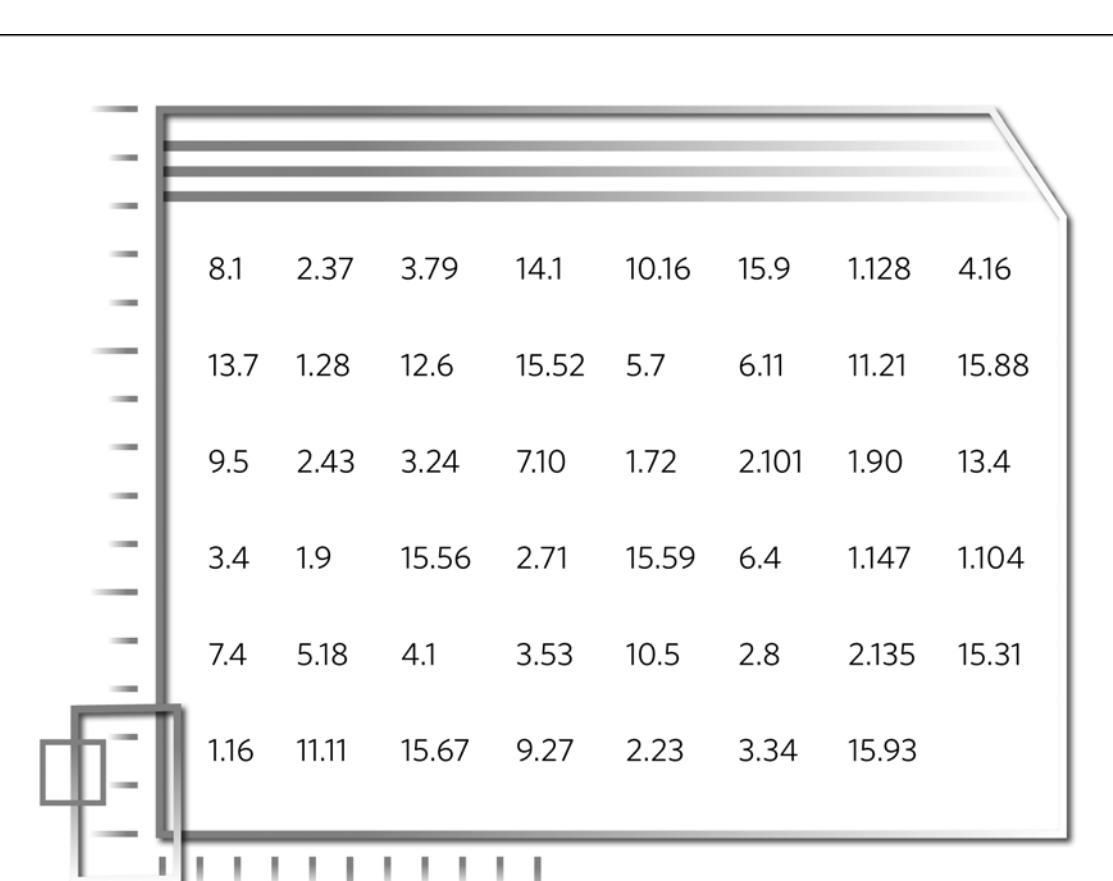
I am eager to receive his report; I am sure that many of you are, as well. But I trust Professor Abelson to take the time he needs to complete a thorough analysis. In the meantime — because this is being played out in public — I wanted you to know what I am thinking and doing, and why.

Sincerely,
Rafael Reif

MIT Shakespeare Ensemble performs "Julius Caesar"



MELISSA RENÉE SCHUMACHER—THE TECH
Brutus (Katie A. Roe '14) discovers the body of a comrade in the MIT Shakespeare Ensemble's performance of "Julius Caesar."



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UA VP candidate withdraws; UA invalidates ticket

Unprecedented occurrence; JudBoard, Election Comm. decide P/VP must run as ticket

UA elections, from Page 1

As a withdrawal this close to the opening of elections is unprecedented, "the UA Judicial Review Board and the Election Commission met at length to discuss this," said Royden. While the UA Election Code does not

explicitly state it, "JudBoard and the Election Commission decided that the Election Code clearly implies that someone cannot run for president without a vice president," continued Royden. "The UA P/VP are only referred to as a joint ticket." It was decided that without a vice presidential candidate, Hernandez

could not run for president on his own ticket, and in the future, election codes might include terms on withdrawals.

The new UA P/VP ballot lists only the Rao/Cornish ticket and the usual write-in option. According to Royden, within an hour of resetting the UA P/VP election, over 500 under-

graduates had already cast ballots.

This decision only affects the UA P/VP race — all Class Council races will proceed as normal.

Elections are online at vote.mit.edu, and polls will still close at 11:59 p.m. on Friday, March 22.

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SMBC, from Page 5

PHYSICS DICK
MOVE #628318

$$e = \frac{e}{10}$$

Solution to Techdoku
from page 5

1	6	4	3	5	2
4	3	1	6	2	5
2	1	5	4	6	3
5	4	2	1	3	6
3	2	6	5	1	4
6	5	3	2	4	1

Solution to Sudoku
from page 5

6	5	7	3	4	1	2	8	9
1	3	9	8	2	7	5	4	6
8	2	4	9	6	5	7	3	1
4	6	1	2	7	8	3	9	5
5	7	2	6	3	9	8	1	4
9	8	3	1	5	4	6	7	2
7	9	8	5	1	6	4	2	3
3	4	5	7	9	2	1	6	8
2	1	6	4	8	3	9	5	7

Solution to Crossword
from page 6

S	N	O	W	G	L	O	B	E	R	I	F	F
M	A	N	I	L	A	B	A	Y	I	N	D	I
A	B	O	R	I	G	I	N	E	C	O	A	S
E	T	S	E	Q		B	O	N	A	C	I	
S	T	A	R	Z		U	T	A	H	P	A	
T	U	N	S	S	O	O	E	Y	C	P	L	
E	N	E	N	O	H	J	O	M	A	R	C	
G	A	S	C	A	N	A	T	O	L	E		
O	T	T	O	M	N	E	O	V	I	V		
S	A	H	T	A	R	O	T	R	A	F		
A	R	E	C	A	P	E	G	O	L	F	S	
U	T	T	E	R	S	M	E	M	O	S		
R	A	I	S	E	P	O	L	I	T	C	O	
U	R	S	A	E	T	R	A	S	H	T	L	
S	E	T	U	P	A	S	L	T	A	K		

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Vast majority of undergraduates satisfied with IAP

IAP Subcommittee recommends keeping credit limits, reducing graded subject offerings

IAP from Page 1

of surveyed students preferred having IAP as opposed to extended reading periods and longer summer vacations.

Additionally, the committee does not support lifting the current 12-unit cap for IAP credits.

The report recommended that only IAP subjects that can be used to fulfill GIRs or major requirements should be graded.

"The subcommittee rejects this notion not only because it conflicts with the original intention of IAP, but because it is counter to the balanced, healthy experience that the Institute should be encouraging," the report reads.

The report goes on to recommend that required classes (including GIRs) offered during IAP be periodically evaluated by the Committee on Curricula (CoC) every three to five years to ensure that the classes are appropriate for the "unique pedagogical opportunities offered during IAP." Furthermore, the report suggests that only required subjects that can be

used to fulfill a GIR or some component of a major or minor program be offered for a letter grade, recommending all other elective subjects be offered P/D/F unless a compelling case can be made as to why they should be graded.

"IAP has become increasingly academic, very much contrary to

its intent," said Ravi M. Charan '14, one of the undergraduates on the subcommittee. "The hope is that this recommendation can slow the progression of IAP towards being a third, more compressed term (for some students at least), without preventing too much of the flexibility associated with the ability to take classes during IAP."

The subcommittee does not recommended changing this policy in relation to graduate classes, however, stating that the graduate offerings are best coordinated at the local level by the Committee on Graduate Programs since departments approach graduate

subject offerings differently. The report also recommends that departments that offer for-credit subjects also offer not-for-credit activities.

During their research for the report, the members of the subcommittee stumbled upon what the report describes as a "number of students who expressed feelings of emptiness and loneliness during IAP."

"New England winters are harsh, it's dark, there are fewer people on campus, and there's less structure to the day. These qualities can lead to a feeling of isolation," Weinberger said. "While there's not much we can do about the cold, our hope is that by identifying the issue, we might be able to take some steps to help build a greater sense of community during IAP."

To this end, the subcommittee additionally recommended that the dean for student life, in conjunction with the Office of Undergraduate Advising and Academic Programming (UAAP), "undertake a review of campus activities during IAP to help foster a greater sense of community." The committee also recommended that the

UAAP survey the sponsors of non-academic activities after each IAP to gather participation data on "the very type of activities that IAP was designed to encourage."

Graduate students had, on average, mixed feelings about IAP; only 60 percent of graduate students reported being satisfied with IAP. Since only five percent of graduate students reported being dissatisfied with IAP, the subcommittee concluded that IAP is "simply not a factor for graduate students." In the hopes of getting more graduate students involved with IAP, the report also calls for evaluating and adjusting the methods for communicating the merits of IAP to the graduate student population.

Naren P. Tallapragada '13, member of the subcommittee and chair of the Undergraduate Association's (UA) committee on education, said that the UA has already been sponsoring several activities over IAP, such as a series of well-attended informal lectures from MIT professors that ran this past IAP and will continue for future IAPs.

"We cut across different departments and different schools," Tallapragada said. "When a room

is packed with 120 people who come from different backgrounds, majors, schools, dorms, and years, you have an opportunity for community building."

Other recommendations by the committee are administrative suggestions to bring IAP more on par with the fall and spring semesters. The subcommittee is proposing a change to the Faculty Rules and Regulations that will prevent on-campus IAP classes from being offered between 5 and 7 p.m. weekdays and between 5 p.m. Fridays and 8 a.m. Mondays, a stipulation that is already in place during the regular semesters. Additional administrative recommendations include developing a complete class listing and schedule for classes that is comparable to what is available for the regular terms and creating a better system for tracking subject enrollments during IAP — including a system to notify advisors when students sign up for IAP subjects (currently, students do not need advisor approval to add or drop subjects during IAP).

A full text of the report can be found here: <http://web.mit.edu/faculty/reports/pdf/iap.pdf>.

New clues in 1990 Gardner art heist

By Katharine Q. Seelye and Tom Mashberg

THE NEW YORK TIMES

The FBI said Monday that it believes it knows the identity of the thieves who stole 13 paintings 23 years ago from the Isabella Stewart Gardner Museum in Boston, one of the most infamous art heists in history.

Officials from the FBI said they believed that the paintings were moved through Connecticut and the Philadelphia area perhaps a decade ago by a criminal organization. They declined to reveal any more about the identity of the thieves, saying the investigation is continuing.

The FBI is establishing a website, www.FBI.gov/gardner, as part of a publicity campaign to alert the public. That campaign includes billboards to be placed in Connecticut and Philadelphia, with reproductions of the paintings in hopes of prompting anyone with information to step forward.

The museum is still offering a \$5 million reward for information that leads to the recovery of the artwork in good condition. It is valued at up to \$500 million.

The bureau undertook a similar publicity effort a few years ago in seeking information about James (Whitey) Bulger, the Boston mobster who had been living on the lam for more than a decade. The campaign led to his arrest in California.

The announcement on Monday was intended to alert potential informants beyond the Boston area, which has been obsessed with the crime since it occurred.

"We are expanding the aperture of awareness," Richard DesLauri-

ers, the special agent in charge of the FBI's Boston field office, said at a news conference. He emphasized that the office does not know where the paintings are now.

The theft occurred at 1:20 a.m. on March 18, 1990. A young night watchman let two men disguised as police officers into the museum after they rang the intercom at the service entrance and claimed they were responding to a disturbance. The thieves subdued the guard and his lone overnight colleague and locked them in the basement bound in handcuffs and duct tape.

The two men removed a total of 13 items in 81 minutes. Included were two large Rembrandt oil paintings that were cut from their frames; single works by Vermeer, Manet and Govaert Flinck; five Degas sketches, and three other items, among them a small etching by Rembrandt.

The robbery ranks as the single biggest museum theft in history in terms of the potential sales value of the missing works. The FBI puts the figure at \$300 million, though others put it at \$500 million.

Over the last 23 years investigators have questioned the relatives and associates of about a dozen Boston-area criminals. Those individuals were part of a loose confederation of New England underworld figures, some with Mafia ties and a few of whom have died.

According to federal court records, FBI affidavits and interviews with lawyers familiar with grand jury proceedings, a linchpin is Robert Guarente, a Mafia figure who died in 2004 at age 65. Officials have searched his former residences, looked into his past movements and studied the activities of many of his associates.

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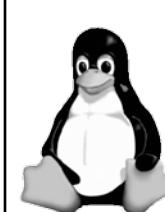
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The Petition period is March 18 to March 31, 2013. For complete Petition rules consult the information posted in the election section on the Coop website.

MIT baseball team opens the 2013 season with a win Friday

Pitching staff dazzles as the Engineers allow just one hit to Clark University Cougars in a 4-1 victory

By Phil Hess
DAPER STAFF

After seeing its first three games of the season erased by bad weather, the MIT baseball team finally got the 2013 season started Friday afternoon with a New England Women's and Men's Athletic Conference game at Clark University. Eben J. Bitonte '15 led the game off with a home run and Kiel L. Jindra '14 did not allow a hit in six innings, striking out eight as the Engineers held the Cougars to just one hit in a 4-1 victory.

MIT's pitching made the lead standup as Kiel L. Jindra '14, Robert J. Bertucci '14, and Henry Zhu '13 combined for the one-hitter.

After Bitonte opened the game with his shot to left center for MIT (1-0, 1-0 NEWMAC), it stayed 1-0 until the fourth when both squads pushed

across a run. Creed J. Mangrum '14 led off the fourth by extending his hitting streak from last year to 18 games with a single to center. Hayden K. Cornwell '15 followed with a single to put two aboard. Mangrum then stole third and came around to score when the throw to third eluded the Clark third baseman.

Jindra was on his game in his first outing of the season, striking out the side in the first inning on his way to retiring all nine hitters in order in his first trip through the Cougar lineup. The only run he surrendered was unearned and scored without a hit in the fourth. Nicholas O'Brien led off for Clark (4-7, 0-1 NEWMAC) and reached second when his fly to left was misplayed for an error. He was sacrificed to second and came around to score on Andrew Doolittle's RBI groundout to second to make it a 2-1 game.

MIT's pitching made the lead standup as Jindra, Robert J. Bertucci '14 and Henry Zhu '13 combined for the one-hit shutout. After Jindra's standout performance over the first six innings, Bertucci worked out of a first and third, one-out jam in the seventh to finish with two scoreless innings that includ-

ed a pair of strikeouts. Zhu finished things off by setting down the side in order in the ninth, striking out one to earn the save.

Creed J. Mangrum '14 led off the fourth by extending his hitting streak from last year to 18 games with a single to center.

MIT struck for another pair of runs in the eighth to complete the scoring. James R. McKinney '13 led off with a double and Mangrum brought him around with his second hit of the day, a single to left. He then advanced to third on a throwing error by the Clark pitcher and came home on a sac fly by Cornwell.

Matt Asdornvuttikrai picked up the only hit of the day for Clark, a one-out single off Bertucci in the eighth. Andrew LeBlanc started and took the loss for the Cougars, going seven innings and giving up four hits and one earned run while striking out nine.

UPCOMING HOME EVENTS

Tuesday, March 19

Baseball vs. Curry College	3:30 p.m., Briggs Field
Baseball vs. Simmons College	3:30 p.m., Briggs Field
Softball vs. Simmons College	5:30 p.m., Briggs Field

Thursday, March 21

Men's Tennis vs. Salem State University	4 p.m., DuPont Tennis Courts
Men's Volleyball vs. Emmanuel College	7 p.m., Rockwell Cage



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SPORTS SHORT

Women's tennis begins year ranked No. 22 in the nation



Last year, the Engineers won the NEWMAC championship, and as a result, they are ranked 22nd in the nation this season. Vynnie J. Kong '15 leads the team in singles victories with 12, while last year's NEWMAC Player of the Year Lauren C. Quisenberry '14 is second with 11. The team starts their season March 24 against Wisconsin-Whitewater.

—Austin Osborne

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